

0300

#8



OIQE

RAW SEQUENCE LISTING

DATE: 01/14/2003

PATENT APPLICATION: US/10/055,882

TIME: 09:54:38

Input Set : A:\0652.2430001 Sequence Listing (revised).txt.txt

Output Set: N:\CRF4\01142003\J055882.raw

3 <110> APPLICANT: Beug, Hartmut
 4 Hofmann, Johannes
 6 <120> TITLE OF INVENTION: Pro-apoptotic Proteins and DNA Molecules Encoding Them
 8 <130> FILE REFERENCE: 0652.2430001/EKS/AES
 10 <140> CURRENT APPLICATION NUMBER: 10/055,882
 C--> 11 <141> CURRENT FILING DATE: 2002-12-23
 13 <150> PRIOR APPLICATION NUMBER: 60/297,443
 14 <151> PRIOR FILING DATE: 2001-06-13
 16 <150> PRIOR APPLICATION NUMBER: EP 01 101 800.9
 17 <151> PRIOR FILING DATE: 2001-01-26
 19 <160> NUMBER OF SEQ ID NOS: 4
 21 <170> SOFTWARE: PatentIn version 3.2
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 505
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Mus musculus
 29 <220> FEATURE:
 30 <221> NAME/KEY: 5'UTR
 31 <222> LOCATION: (1)..(47)
 33 <220> FEATURE:
 34 <221> NAME/KEY: CDS
 35 <222> LOCATION: (48)..(389)
 37 <220> FEATURE:
 38 <221> NAME/KEY: 3'UTR
 39 <222> LOCATION: (390)..(505)
 41 <400> SEQUENCE: 1
 42 cacctcgccc gaggcagtga gggaccaggc tctccaagga cagaaaa atg gcg gcc 56
 43 Met Ala Ala
 44 1
 46 ctg ggg tcc ccg gcg cgc act ctg cgg ggc ctt ctg agg gag ctg cgc 104
 47 Leu Gly Ser Pro Ala Arg Thr Leu Arg Gly Leu Leu Arg Glu Leu Arg
 48 5 10 15
 50 tac ctg aac gcg gcc acc ggg cgg cca tat cgc gac aca gcg gcc tac 152
 51 Tyr Leu Asn Ala Ala Thr Gly Arg Pro Tyr Arg Asp Thr Ala Ala Tyr
 52 20 25 30 35
 54 cgg tac ctc gtt aag gct ttc cga gca cat cgg gtt acc agt gag aag 200
 55 Arg Tyr Leu Val Lys Ala Phe Arg Ala His Arg Val Thr Ser Glu Lys
 56 40 45 50
 58 ttg tgt aga gcc caa cac gaa ctt cac ttc caa gct gcc acc tat ctc 248
 59 Leu Cys Arg Ala Gln His Glu Leu His Phe Gln Ala Ala Thr Tyr Leu
 60 55 60 65
 62 tgc ctt ttg agt agc atc cgg caa cat gta gcc ctt cat cag gaa ttt 296
 63 Cys Leu Leu Ser Ser Ile Arg Gln His Val Ala Leu His Gln Glu Phe

ENTERED

RAW SEQUENCE LISTING

DATE: 01/14/2003

PATENT APPLICATION: US/10/055,882

TIME: 09:54:38

Input Set : A:\0652.2430001 Sequence Listing (revised).txt.txt

Output Set: N:\CRF4\01142003\J055882.raw

```

64          70          75          80
66 cat ggc aag ggt gag cgt tca gtg gag gag tct gct ggt tta gtg ggc 344
67 His Gly Lys Gly Glu Arg Ser Val Glu Glu Ser Ala Gly Leu Val Gly
68      85          90          95
71 ctc cag ttg ccc cgt cag cct gga ggg aag ggc tgg gag ccg tga 389
72 Leu Gln Leu Pro Arg Gln Pro Gly Gly Lys Gly Trp Glu Pro
73 100          105          110
75 tgcagagagt cctcagatgt tccttcattc aagagtttaa ccatttctaa caatatgtag 449
77 ttatcattaa atctttttta aagtgtaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 505
81 <210> SEQ ID NO: 2
82 <211> LENGTH: 113
83 <212> TYPE: PRT
84 <213> ORGANISM: Mus musculus
86 <400> SEQUENCE: 2
87 Met Ala Ala Leu Gly Ser Pro Ala Arg Thr Leu Arg Gly Leu Leu Arg
88 1          5          10          15
90 Glu Leu Arg Tyr Leu Asn Ala Ala Thr Gly Arg Pro Tyr Arg Asp Thr
91      20          25          30
93 Ala Ala Tyr Arg Tyr Leu Val Lys Ala Phe Arg Ala His Arg Val Thr
94      35          40          45
96 Ser Glu Lys Leu Cys Arg Ala Gln His Glu Leu His Phe Gln Ala Ala
97      50          55          60
99 Thr Tyr Leu Cys Leu Leu Ser Ser Ile Arg Gln His Val Ala Leu His
100 65          70          75          80
102 Gln Glu Phe His Gly Lys Gly Glu Arg Ser Val Glu Glu Ser Ala Gly
103      85          90          95
105 Leu Val Gly Leu Gln Leu Pro Arg Gln Pro Gly Gly Lys Gly Trp Glu
106      100          105          110
108 Pro
112 <210> SEQ ID NO: 3
113 <211> LENGTH: 467
114 <212> TYPE: DNA
115 <213> ORGANISM: Homo sapiens
117 <220> FEATURE:
118 <221> NAME/KEY: 5'UTR
119 <222> LOCATION: (1)..(42)
121 <220> FEATURE:
122 <221> NAME/KEY: CDS
123 <222> LOCATION: (43)..(384)
125 <220> FEATURE:
126 <221> NAME/KEY: 3'UTR
127 <222> LOCATION: (385)..(467)
129 <400> SEQUENCE: 3
130 tgcggccgcc gttgggcacc acgctcggag aaggacagga ca atg gcg gcc tta 54
131          Met Ala Ala Leu
132          1
136 ggg tcc ccg gcg cac act ttt cga gga ctt ctg cgg gag ttg cgc tac 102
137 Gly Ser Pro Ala His Thr Phe Arg Gly Leu Leu Arg Glu Leu Arg Tyr
138 5          10          15          20

```

RAW SEQUENCE LISTING

DATE: 01/14/2003

PATENT APPLICATION: US/10/055,882

TIME: 09:54:38

Input Set : A:\0652.2430001 Sequence Listing (revised).txt.txt

Output Set: N:\CRF4\01142003\J055882.raw

```

140 ctg agc gcg gcc acc ggc cga ccc tat cgc gac acc gcg gcc tat cgg 150
141 Leu Ser Ala Ala Thr Gly Arg Pro Tyr Arg Asp Thr Ala Ala Tyr Arg
142          25          30          35
144 tac ctt gtg aag gct ttc cgt gca cat cgg gtc acc agt gaa aag ttg 198
145 Tyr Leu Val Lys Ala Phe Arg Ala His Arg Val Thr Ser Glu Lys Leu
146          40          45          50
148 tgc aga gcc caa cat gag ctt cat ttc caa gct gcc acc tat ctc tgc 246
149 Cys Arg Ala Gln His Glu Leu His Phe Gln Ala Ala Thr Tyr Leu Cys
150          55          60          65
152 ctc ctg cgt agc atc cgg aaa cat gtg gcc cta cat cag gaa ttt cat 294
153 Leu Leu Arg Ser Ile Arg Lys His Val Ala Leu His Gln Glu Phe His
154          70          75          80
156 ggc aag ggt gag cgc tcg gtg gag gag tct gct gcc ttg gtg ggt ctc 342
157 Gly Lys Gly Glu Arg Ser Val Glu Glu Ser Ala Gly Leu Val Gly Leu
158 85          90          95          100
160 aag ttg ccc cat cag cct gga ggg aag ggc tgg gag cca tga 384
161 Lys Leu Pro His Gln Pro Gly Gly Lys Gly Trp Glu Pro
162          105          110
164 acatggagaa tacccttgga tgctgcattc ataggagaat tgaataatct ctatcaatat 444
166 gtatttatca ttaaattttt ttt 467
170 <210> SEQ ID NO: 4
171 <211> LENGTH: 113
172 <212> TYPE: PRT
173 <213> ORGANISM: Homo sapiens
175 <400> SEQUENCE: 4
176 Met Ala Ala Leu Gly Ser Pro Ala His Thr Phe Arg Gly Leu Leu Arg
177 1          5          10          15
179 Glu Leu Arg Tyr Leu Ser Ala Ala Thr Gly Arg Pro Tyr Arg Asp Thr
180          20          25          30
182 Ala Ala Tyr Arg Tyr Leu Val Lys Ala Phe Arg Ala His Arg Val Thr
183          35          40          45
185 Ser Glu Lys Leu Cys Arg Ala Gln His Glu Leu His Phe Gln Ala Ala
186          50          55          60
188 Thr Tyr Leu Cys Leu Leu Arg Ser Ile Arg Lys His Val Ala Leu His
189 65          70          75          80
191 Gln Glu Phe His Gly Lys Gly Glu Arg Ser Val Glu Glu Ser Ala Gly
192          85          90          95
194 Leu Val Gly Leu Lys Leu Pro His Gln Pro Gly Gly Lys Gly Trp Glu
195          100          105          110
197 Pro

```

VERIFICATION SUMMARY

DATE: 01/14/2003

PATENT APPLICATION: US/10/055,882

TIME: 09:54:39

Input Set : A:\0652.2430001 Sequence Listing (revised).txt.txt

Output Set: N:\CRF4\01142003\J055882.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date